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/*GOPIKRISHNA V
        S3 CSE A
        52
JAVA PGM TO FIND THE PRODUCT OF TWO MATRICES
import java.util.*;
public class matrixmulti
        public static void main(String args[])
        {
                 Scanner sc=new Scanner(System.in);
                 int row1,row2,col1,col2,i,j,k;
                 int matrix1[][]=new int[10][10];
                 int matrix2[][]=new int[10][10];
                 int product[][]=new int[10][10];
                 System.out.println("Enter the row and column of the first matrix");
                 row1=sc.nextInt();
                 col1=sc.nextInt();
                 System.out.println("Enter the row and column of the second
matrix");
                 row2=sc.nextInt();
                 col2=sc.nextInt();
                 if(col1!=row2)
                         System.out.println("Product of matrix not possible");
                 else
                 {
                         System.out.println("Enter the elements of matrix 1");
                         for(i=0;i<row1;i++)</pre>
                                  for(j=0;j<col1;j++)</pre>
                                  {
                                          matrix1[i][j]=sc.nextInt();
                                  }
                         System.out.println("Enter the elements of matrix 2");
                         for(i=0;i<row1;i++)</pre>
                                  for(j=0;j<col2;j++)</pre>
                                          matrix2[i][j]=sc.nextInt();
                                  }
                         int sum=0;
                         for(i=0;i<row1;i++)</pre>
                                  for(j=0;j<col2;j++)</pre>
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sum=0;
                                         for(k=0;k<row2;k++)</pre>
                                                  sum = sum +
(matrix1[i][k]*matrix2[k][j]);
                                         product[i][j]=sum;
                                 }
                        System.out.println("PRODUCT OF MATRICES
\n----\n");
                        for(i=0;i<row1;i++)</pre>
                                 for(j=0;j<col2;j++)</pre>
                                         System.out.print(product[i][j]+"\t");
                                 System.out.print("\n");
                        }
                }
        }
}
```